AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A CDMA receiver performing a path search by searching with a prescribed timing a delay profile indicating a signal power distribution with respect to delay times of received signals, ~~wherein said delay profile is divided into a plurality of regions, based on said delay time, said searching done at the respective timing being performed so as to determine a power distribution condition for at least one selected region, said regions being selected for the purpose of searching each one of the respective regions with a different frequency from each other, based on said power distribution of said regions~~ comprising:

a separating means, which divides said delay profile into a plurality of regions, based on said delay time, and which selects at least one of said regions at the respective timings as a designated object for a signal power detection;

a detection means, which performs a signal power detection within said selected region, and determines a signal power distribution condition;

a priority establishing means, which establishes a priority of a region in response to said signal power distribution condition; and

a region designation means, which designates a region to be selected in said separating means as an object for said signal power detection so that the higher priority a region possessing, with the higher frequency can be designated.

2. (currently amended): [[A]] The CDMA receiver according to claim 1, wherein said ~~searching~~ detection means searches for a peak signal power within ~~said each one of~~ said ~~regions~~ selected region, and wherein said region designation means designates a region [[is]] to be selected so that the higher peak signal power a region possessing, with the higher frequency can be ~~selected~~ designated.

3. (currently amended): [[A]] The CDMA receiver according to claim 2, wherein a peak signal power used in ~~setting~~ determining said ~~selection~~ designation frequency of said ~~regions~~ region is a total signal power of a plurality of ~~peak powers~~ signal peaks within said region.

4. (canceled).

5. (currently amended): [[A]] The CDMA receiver according to claim 1, wherein each one of said regions comprises time periods that are either equal to or different from each other.

6. (currently amended): [[A]] The CDMA receiver according to claim 5, wherein there exists an overlapped time period in each of said region with respect to the neighboring region thereto.

7. (canceled).

8. (currently amended): [[A]] The CDMA receiver according to claim [[7]] 19, wherein ~~control is performed~~ said classifying means controls regions included among said first region so that, ~~in a case in which said peak power used in classification into said important regions and said non-important regions,~~ when path information corresponding to [[one]] a single peak signal power among total signal power within a region is assigned to [[a]] said finger section, [[a]] said region ~~including said one peak power~~ is still to be included in said ~~important~~ first regions, and when path information corresponding to ~~one peak power~~ a total signal power of a plurality of signal peaks within a region is [[not]] assigned to [[a]] said finger section, [[a]] said region ~~including said one peak power~~ is to be excluded ~~removed~~ from said first region ~~important regions~~.

9. (currently amended): [[A]] The CDMA receiver according to claim 3, wherein said total signal power of a plurality of signal peaks within said region is calculated so that a respective different value of multiplier is applied to each ~~one of the detected peak powers in all respective regions~~ peak signal power in order that the higher peak signal power ~~a region~~ among all of the regions processing, the ~~larger~~ multiplier of larger value is ~~assigned, and a total of said peak powers in each of said regions is determined~~ applied.

10. (currently amended): [[A]] The CDMA receiver according to claim 3, wherein ~~a total of said peak power in each of said region is taken as~~ said total signal power of a plurality of signal peaks within said region is obtained by an average value of ~~one or more the respective peak powers obtained~~ peak signal powers detected by one or more searching for ~~each one of~~ said ~~regions~~ region.

11. (currently amended): [[A]] The CDMA receiver according to claim 3, wherein said total signal power of a plurality of signal peaks within said region is obtained by weighting ~~is performed so as to~~ a respective different value of weight to each peak signal power in a region ~~greater,~~ in order that the higher ~~is a selection~~ designated frequency [[of]] said region possessing, ~~in taking a peak power total~~ the weight of higher value is applied.

12. (canceled).

13. (currently amended): A method for path searching for a CDMA receiver whereby a path is detected by searching at a prescribed timing for a delay profile indicating a signal power distribution with respect to a delay time of received signal, said method comprising:

dividing said delay profile into a plurality of regions, based on said delay time, and ~~separating~~ selecting at least one said ~~selected region of said delay profile~~ regions at each of said timings as a designated object for a signal power detection;

searching and detecting a signal power within said ~~separated~~ selected region, and determining a signal power distribution condition; [[and]]

establishing a priority of a region in response to said signal power distribution condition; and[[,]]

designating [[one]] a region to be selected as an object ~~to be separated in said separating means~~ for detecting said signal power so that the higher priority a region processing, with the higher frequency can be ~~selected~~ designated.

14. (currently amended): [[A]] The path search method according to claim 13, whereby a peak signal power within said selected region is ~~determined by detection~~ detected, and whereby a priority is allocated to said region ~~is set to at a priority~~ so that the higher peak signal power a region possessing, at the higher priority can be [[set]] allocated.

15. (currently amended): [[A]] The path search method according to claim 14, whereby said priority is calculated based on a peak signal power obtained at each one of said timings, and whereby a frequency for designating said region ~~frequency~~ is calculated based on said priority ~~calculated at each one of said timings~~, and further whereby calculation of said priority and frequency is performed by a prescribed algorithm.

16. (canceled).

17. (canceled).

18. (new): A CDMA receiver comprising:

a delay profile measuring section for measuring a delay profile indicating a signal power distribution with respect to delay time of received signals;

a path search section for searching with a prescribed timing said delay profile;

a rake receiver section; and

a finger section for passing data assigned by said path search section to said rake receiver section;

wherein said path search section includes:

a separating means, which divides said delay profile into a plurality of regions, based on said delay time, and which selects at least one of said regions at the respective timings as a designated object for a peak signal power detection;

a detection means, which performs a peak signal power detection within said selected region, and determines a signal power distribution condition;

a priority establishing means, which establishes a priority of a region in response to said peak signal power of said signal power distribution condition; and

a region designation means, which designates a region to be selected in said separating means as an object for said peak signal power detection so that the higher priority a region possessing, with the higher frequency can be designated,

wherein a peak signal power to be detected by said detection means is a total signal power of a plurality of signal peaks within said region.

19. (new): The CDMA receiver according to claim 18, wherein said priority establishing means further having a classifying means, which classifies said regions into first regions including a relatively large peak power distribution and second regions which are other than said first regions, and

wherein said region designation means designates said first regions in a high frequency and said second regions in a low frequency.

20. (new): A computer program for path searching for a CDMA receiver whereby a path is detected by searching at a prescribed timing for a delay profile indicating a signal power distribution with respect to delay time of received signals, said computer program comprising:

dividing said delay profile into a plurality of regions, based on said delay time, and selecting at least one of said regions at each one of said timings as a designated object for a signal power detection;

searching and detecting a signal power within said selected region, and determining a signal power distribution condition;

establishing a priority of a region in response to said signal power distribution condition; and

designating a region to be selected as an object for detecting said signal power so that the higher priority a region possessing, with the higher frequency can be designated